

Abstract

A virtual-tight-wire system is provided for determining a centerline in a large rotary machine (10). The virtual-tight-wire system includes a columnar light source (30) that is positioned at one end of the rotary machine (10). A columnar beam of light (32) is emitted from the light source (30) toward light receivers (26) in a first and second centering tool (24). The beam of light (32) is adjusted to impact the center of the light receivers (26). Once the beam (32) has been aligned, the beam acts as a virtual tight-wire for identifying a centerline of the rotary machine (10).